

**United States Environmental Protection Agency
Region V
POLLUTION REPORT**

EPA Region 5 Records Ctr.



279996

Date: Tuesday, February 19, 2008

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Subject: Peoples Gas Pitney Court Station Site
3052 Pitney Court, Chicago, IL
Latitude: 41.8375
Longitude: -87.6625

POLREP No.:	11	Site #:	B5HP
Reporting Period:	11/26/07 - 12/22/07	D.O. #:	Not Applicable
Start Date:	6/18/2007	Response Authority:	CERCLA
Mob Date:	6/18/2007	Response Type:	Time-Critical
Completion Date:		NPL Status:	Non NPL
CERCLIS ID #:	ILN000510196	Incident Category:	Removal Action
RCRIS ID #:		Contract #	EP-S5-06-04

Site Description

The Pitney Court Station Site (Site) is located at 3052 Pitney Court, Chicago, Cook County, Illinois, in a mixed residential, commercial, and industrial area. The site is approximately 4.8 acres and is bordered to the northwest by Archer Avenue, to the northeast by Pitney Court and 31st Street, to the east by Benson Street, to the south by Chicago Plating Inc., a chrome plating facility, and to the west by the South Fork of the South Branch of the Chicago River.

The Site is a former manufactured gas plant (MGP) that operated as an MGP facility from approximately 1897 to 1921. The Universal Gas Company (Universal) began MGP operations at the Site in 1897. Peoples Gas leased the facility from Universal in 1907 and then purchased Universal in 1914. Production operations ceased at the Site in 1921, and the facility was dismantled in 1938. Peoples Gas sold the property in 1952 and re-purchased it in July 2005. Peoples Gas currently owns the Site, which is planned for residential development.

Numerous investigations were conducted by a number of parties from 1990 to 2000. Peoples Gas conducted investigations from approximately 2002 to 2006. Coal tar, staining, and sheen were observed at depths below the water level in soil borings and test pits. Arsenic,

lead, benzene, ethylbenzene, toluene, and polynuclear aromatic hydrocarbons (PAH) were detected at concentrations exceeding Illinois TACO Tier I screening levels in soil samples. Volatile organic compounds (VOC), semivolatile organic compounds (SVOC), metals, and cyanide were detected in groundwater samples at the site. Sediment samples collected in the South Fork of the South Branch of the Chicago River contained PAHs and other SVOCs, VOCs, PCBs, oil and grease, and metals; two of these sediment samples contained oily sheens.

Remediation activities, consisting of excavation and disposal of contaminated soils, were begun by Peoples Gas in September 2005 under the Illinois Environmental Protection Agency (IEPA) Site Remediation Program. Peoples Gas is the potentially responsible party (PRP). Remediation was suspended temporarily in December 2005 and resumed in September 2006. The PRP contractor remediating the Site is Burns & McDonnell Engineering Company, Inc. (BMcD), along with their subcontractors.

Site activities by the PRP include excavation to depths ranging from approximately 3 feet to 20 feet below ground surface (bgs). Other site activities include daily air monitoring, continuous 24-hour perimeter air monitoring and sampling, confirmation soil sampling, and water disposal.

Prior to the U.S. EPA oversight at the Site, BMcD completed excavation of impacted material in approximately 99 cells of 151 excavation cells (see BMcD map of excavation areas under □ documents □ on the OSC website). An Administrative Order on Consent was signed by Peoples Gas in early June 2007, prompting the U.S. Environmental Protection Agency (U.S. EPA) to begin PRP oversight activities at the Site.

On June 12, 2007, a kick-off meeting was held at the 22nd Street Site between U.S. EPA, START, Peoples Gas, and BMcD, to discuss future oversight activities, documents required, and logistics for transmitting data and documents. The meeting addressed three MGP sites that U.S. EPA would be overseeing that are located within one mile of each other: 22nd Street Station, Hough Place, and Pitney Court. Note that one START member is to cover oversight of these three sites and will rotate to a different site each day. Both Hough Place and Pitney Court remediations are expected to be completed by mid 2008, while the 22nd Street Station Site remediation is expected to be completed by the end of early 2009.

On June 18, 2007, U.S. EPA began PRP oversight activities at the three Peoples Gas MGP sites: Hough Place Station, Pitney Court Station, and 22nd Street Station. The U.S. EPA Superfund Technical and Response Team (START) contractor is performing PRP oversight during the removal activities at the sites. As part of the removal activities, START collects or observes the collection of confirmation samples of soil to confirm that the PRP cleanup objectives are being met. Samples are being collected to identify the potential presence of the following site contaminants of concern:

- BTEX;
- PAHs;
- Synthetic precipitation leaching procedure (SPLP) lead, chromium, and selenium

- ☐ 2-methynaphthalene and carbazole (SVOCs).

Cleanup objectives for the Pitney Court Station Site are as follows:

1. For the 0 to 7 foot depth interval, removal of all soil that exceeds IEPA TACO Tier 1 residential standards for soil ingestion and inhalation.
2. For the 7 to 10 foot depth interval, removal of all soil that exceeds IEPA TACO Tier 1 and Tier 3 (using Chicago background levels for select polynuclear aromatic hydrocarbons) residential standards for soil ingestion and inhalation.
3. For soil deeper than 10 feet bgs, removal of all soil that exceeds IEPA TACO Tier 1 and Tier 3 residential standards for soil ingestion, and use the 10 foot overburden as an engineered barrier, if necessary, to prevent exposure via inhalation.
4. Invoke a construction worker notice and the City of Chicago Ordinance prohibiting installation to potable wells on the Site to eliminate the construction worker and groundwater exposure pathways. The groundwater exposure pathway will also be eliminated by analyzing select confirmation soil samples for SPLP metals.

Current Activities

During the reporting period, the PRP performed excavations in cells 137, 151, 123, 109, 095, 148, 149, 150, 094, 093, 092, 091, 090. The PRP conducted confirmation sampling at cells 151, 137, 123, 109, 095, 148, 150, 094, 093, 092, 091 (see BMcD map of excavation areas under ☐documents☐ on the OSC website).

A summary of the activities performed during the reporting period by BMcD at the Site are as follows:

- ☐ Transported 213 loads of soil/ debris to CID Landfill in Calumet City, Illinois
- ☐ Transported 0 loads of water for disposal
- ☐ Transported 4 loads of concrete debris for disposal
- ☐ Performed perimeter air sampling and air monitoring on a continuous basis (24-hour air samples and air monitoring is conducted around the perimeter). On November 26-30 and December 3, 2007, elevated dust air levels were detected: dust control measures were taken. On December 4-5, 11, 14, 17-20, 2007, elevated dust air levels were detected: site activities were slowed. On December 10, 2007, elevated dust air levels were detected due to foggy weather: resample was below action levels.
- ☐ Performed health and safety air monitoring during site activities
- ☐ Backfilled completed excavation cells
- ☐ Performed street sweeping and dust control activities
- ☐ Performed daily de-watering activities in excavation area, as needed, with offsite disposal of water
- ☐ Collected confirmation soil samples from the east walls of 151, 137, 123, 109 and 095; the north walls of 095, 094, 093, 092, and 091; and the south walls of 148 and 150.

Sampling activities are detailed below.

On November 26, 2007, BMcD collected one confirmation sample each from the east wall of

cell 137 and cell 151. Cells 137 and 151 are along the east property line of the site: these are site perimeter samples. The samples were analyzed for BTEX and SVOCs. Both samples did not meet the PAH objectives, as stated in the Remedial Action Plan (RAP). However, the PAHs were within background levels for the City of Chicago (IEPA Section 742. Table H). In addition, the BTEX hold time was exceeded by 0.05 days. No further excavation or sampling is planned by BMcD for these sample areas.

On November 28, 2007, BMcD collected one confirmation sample from the east wall of cell 123. Cell 123 is along the east property line of the site: this is a site perimeter sample. The sample was analyzed for BTEX, SVOCs and SPLP metals. The sample did not meet the PAH objectives, as stated in the RAP. The PAHs were within background levels for the City of Chicago. No further excavation or sampling is planned by BMcD for this sample area.

On November 29, 2007, START collected one confirmation sample from the east wall of cell 109, along with BMcD. Cell 109 is along the east property line of the site: this is a site perimeter sample. The sample was analyzed for BTEX and SVOCs. Both the START and BMcD sample did not meet the PAH objectives, as stated in the RAP. No further excavation or sampling is planned by BMcD for this sample area.

On November 30, 2007, BMcD collected one confirmation sample each from the north and east wall of cell 095. Cell 095 is at a northeast corner of the site: these are site perimeter samples. The samples were analyzed for BTEX and SVOCs. The samples did not meet the PAH objectives, as stated in the RAP. No further excavation or sampling is planned by BMcD for these sample areas.

On December 3, 2007, BMcD collected one confirmation soil samples from the south wall of cell 148. Although the cell was excavated to a depth of 10' bgs, only the south wall horizon from 0' to 7' bgs was sampled. The south wall 7' to 10' bgs horizon wasn't excavated because the south adjacent building could have been undermined. Cell 148 is at the south property line of the site: this is a site perimeter sample. The samples were analyzed for BTEX and SVOCs. The sample did not meet the PAH objectives, as stated in the RAP. The PAHs were within background levels for the City of Chicago. No further excavation or sampling is planned by BMcD for these sample areas.

On December 7, 2007, START collected one confirmation sample from the south wall of cell 150, along with BMcD. Cell 150 is at the south property line of the site: this is a site perimeter sample. The sample was analyzed for BTEX, SVOCs and SPLP metals. Both the START and BMcD sample did not meet the PAH objectives, as stated in the RAP. No further excavation or sampling is planned by BMcD for this sample area.

On December 10, 2007, BMcD collected one confirmation sample from the north wall of cell 094. Cell 094 is at a north property line of the site: this is a site perimeter sample. The sample was analyzed for BTEX and SVOCs. The sample did not meet the PAH objectives, as stated in the RAP. No further excavation or sampling is planned by BMcD for this sample area.

On December 11, 2007, BMcD collected one confirmation sample from the north wall of cell 093. Cell 093 is at a north property line of the site: this is a site perimeter sample. The sample was analyzed for BTEX and SVOCs. The sample did not meet the PAH objectives, as stated in the RAP. No further excavation or sampling is planned by BMcD for this sample area.

On December 12, 2007, BMcD collected one confirmation sample from the north wall of cell 092. Cell 092 is at a north property line of the site: this is a site perimeter sample. The sample was analyzed for BTEX and SVOCs. Although the cell was excavated to a depth of 10 ft bgs, only the north wall horizon from 0 ft to 7 ft bgs was sampled. The north wall 7 ft to 10 ft bgs horizon wasn't excavated because the adjacent power pole could have been undermined. The sample did not meet the PAH objectives, as stated in the RAP. No further excavation or sampling is planned by BMcD for this sample area.

On December 19, 2007, START collected one confirmation sample from the north wall of cell 091, along with BMcD. Cell 091 is at a north property line of the site: this is a site perimeter sample. The sample was analyzed for BTEX and SVOCs. Although the cell was excavated to a depth of 10 ft bgs, only the north wall horizon from 0 ft to 7 ft bgs was sampled. The north wall 7 ft to 10 ft bgs horizon wasn't excavated because the adjacent power pole could have been undermined. Both the START and BMcD sample did not meet the PAH objectives, as stated in the RAP. No further excavation or sampling is planned by BMcD for this sample area.

Analytical results from previous sampling events have been received and evaluated by START.

On October 29, 2007, BMcD collected two confirmation soil samples from the south wall of CF144: one sample each at the 0 to 7 ft bgs horizon and the 7 to 10 ft bgs horizon. Cell 144 is along the south property line of the site: this is a site perimeter sample. The samples were analyzed for BTEX and SVOCs. The deeper sample met cleanup objectives. However, the shallow sample did not meet the PAH objectives, as stated in the RAP. No further excavation or sampling is planned by BMcD for this sample area.

On October 30, 2007, BMcD collected two confirmation soil samples from the south wall of cell 145: one sample each at the 0 to 7 ft bgs horizon and the 7 to 10 ft bgs horizon. Cell 145 is along the south property line of the site: this is a site perimeter sample. The samples were analyzed for BTEX and SVOCs. The deeper sample met cleanup objectives. However, the shallow sample did not meet the PAH objectives, as stated in the RAP. No further excavation or sampling is planned by BMcD for this sample area.

On October 31, 2007 and November 1, 2007, START and BMcD collected two confirmation soil samples from the south wall of CF146: one sample each at the 0 to 7 ft bgs horizon and the 7 to 10 ft bgs horizon. Cell 146 is along the south property line of the site: this is a site perimeter sample. The samples were analyzed for BTEX and SVOCs. Both the START and BMcD sample results for the cell 146 shallow samples did not meet PAH objectives. No further excavation or sampling is planned by BMcD for this sample area.

On November 2, 2007, BMcD collected two confirmation soil samples from the south wall of CF147: one sample each at the 0 to 7 ft bgs horizon and the 7 to 10 ft bgs horizon. Cell 146 is along the south property line of the site: this is a site perimeter sample. The samples were analyzed for BTEX and SVOCs. The shallow sample was also analyzed for SPLP metals. The deeper sample met cleanup objectives. However, the shallow sample did not meet the PAH objectives, as stated in the RAP. No further excavation or sampling is planned by BMcD for this sample area.

On November 6, 2007, BMcD collected one confirmation soil sample from the south wall of cell 151. Cell 151 is at a southeast corner of the site: this is a site perimeter sample. The sample was analyzed for BTEX and SVOCs. The sample did not meet the PAH objectives, as stated in the RAP. No further excavation or sampling is planned by BMcD for this sample area.

On November 15, 2007, BMcD collected one confirmation soil sample from the south wall of cell 081, from the 10" to 20" bgs horizon. This sample was taken to evaluate the soil between cell 081 and south adjacent cell 102 (final depth 10" bgs). The sample was analyzed for BTEX and SVOCs. The sample met the PAH objectives, as stated in the RAP.

Planned Removal Actions

Planned removal actions at the Pitney Court Station Site are as follows:

- ☐ Excavate soil per the RAP
- ☐ Transport excavated soil to CID Landfill for disposal
- ☐ De-water excavation areas as needed
- ☐ Transport water from excavation areas to disposal facility as needed
- ☐ Backfill completed excavation areas

Next Steps

The next steps to be carried out by the PRP are as follows:

- ☐ Complete excavation of the perimeter of cell 090; including disposal of soil
- ☐ Begin excavation of other cells
- ☐ De-water excavation areas if required
- ☐ Transport water from excavation areas to disposal facility if required
- ☐ Continue 24-hour perimeter air monitoring and sampling
- ☐ Continue air monitoring in work zones
- ☐ Collect confirmation samples of completed excavation cells, including cell 090 wall
- ☐ Backfill completed excavation cells with clean fill when confirmation results are received

Key Issues

None.

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
RST/START	\$50,000.00	\$41,647.00	\$8,353.00	16.71%
Intramural Costs				
Total Site Costs	\$50,000.00	\$41,647.00	\$8,353.00	16.71%

* The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

Disposition of Wastes

Waste Stream	Quantity	Manifest #	Disposal Facility
November 2007 Non-hazardous Water	21,400 gallons		CID RDF, Calumet City, IL
November 2007 Non-hazardous Soil	3,570 yd3		CID RDF, Calumet City, IL

www.epaosc.net/PitneyCourt